

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/00322

FILE COPY

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A23K 1/18

US CL : 426/2, 98, 307, 601, 623, 807; 424/438

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 426/2, 98, 307, 601, 623, 807; 424/438

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,206,049 A (FIELDING et al.) 27 April 1993, col. 3, lines 40-50, claim 7, claim 9.	1-5, 7-9, 15-16, 40-43, 47-48, 52-53
X	US 5,190,775 A (KLOSE et al.) 02 March 1993, claims 1-12, col. 2, lines 60-69, col. 3, lines 48-49, col. 5, lines 38-40.	1-20, 40-59
X	US 5,807,594 A (KING et al.) 15 September 1998, col. 4, lines 29-40, col. 3, lines 43+, claims, col. 5, lines 46-49.	1-14, 40-59.
X	US 5,496,571 A (BLAGDON et al.) 05 March 1996, col. 3, lines 1-2, 64-67, col. 4, lines 1-17, col. 10, lines 1-10, claims.	1-11, 40-56
Y	US 5,227,166 A (UEDA et al.) 13 July 1993, col. 1, lines 5-10, col. 3, line 40, col. 4, lines 10-25.	1-11, 40-56
Y	US 5,635,198 A (NISHIMURA et al.) 03 June 1997, see col. 6, col. 9, claim 1, examples 13 and 14.	1-11, 40-56
Y	US 4,713,245 A (ANDO et al.) 15 December 1987, col. 3, lines 42-51, col. 4, lines 48-50.	1-11, 40-56
Y	US 5,429,832 A (UEDA et al.) 04 July 1995, col. 4, lines 23 and 33, 59-68, col. 5, lines 1-21.	1-14, 40-59
Y	US 5,676,966 A (KITAMURA et al.) 14 October 1997, col. 3, line 15, lines 42-60, col. 4, lines 5-10, example 1.	1-11, 40-56



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family

Date of the actual completion of the international search

19 March 2003 (19.03.2003)

Date of mailing of the international search report

Name and mailing address of the ISA/US

Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Facsimile No. (703)305-3230

Authorized officer

C. SAYALA

Telephone No. 703-308-0661

INTERNATIONAL SEARCH REPORT

PCT/US03/00324

FILE COPY

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,571,527 A (NISHIMURA et al.) 05 November 1996, see col. 5, line 67, col. 6, lines 45-62, col. 9, lines 15-20, col. 10, lines 20+, col. 7, lines 10-17, example 6, examples 13-14.	1-11, 40-56.